

# **Environmental Management System (EMS)**

## **Senior Level Awareness Training 222d BSB Baumholder**



**Mr. Michael Eckels (URS)**  
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# Purpose

- Provide a basic understanding of what is an Environmental Management System (EMS)
- Describe why an EMS is necessary
- Show the benefits of EMS
- Explain in short the EMS process and EMS Model
- Present the Army EMS implementation schedule and the implementation status at the 222d BSB
- Present the 222d BSB's Environmental Policy
- Explain the 222d BSB's significant environmental aspects and the relationship between mission activities, aspects and impacts
- Describe what individuals can do to protect the environment
- Explain senior leadership's role and responsibility in achieving conformance with the 222d BSB's environmental policy, procedures and EMS
- Present the procedure for eliminating non-conformities with EMS requirements

# What is an Environmental Management System?

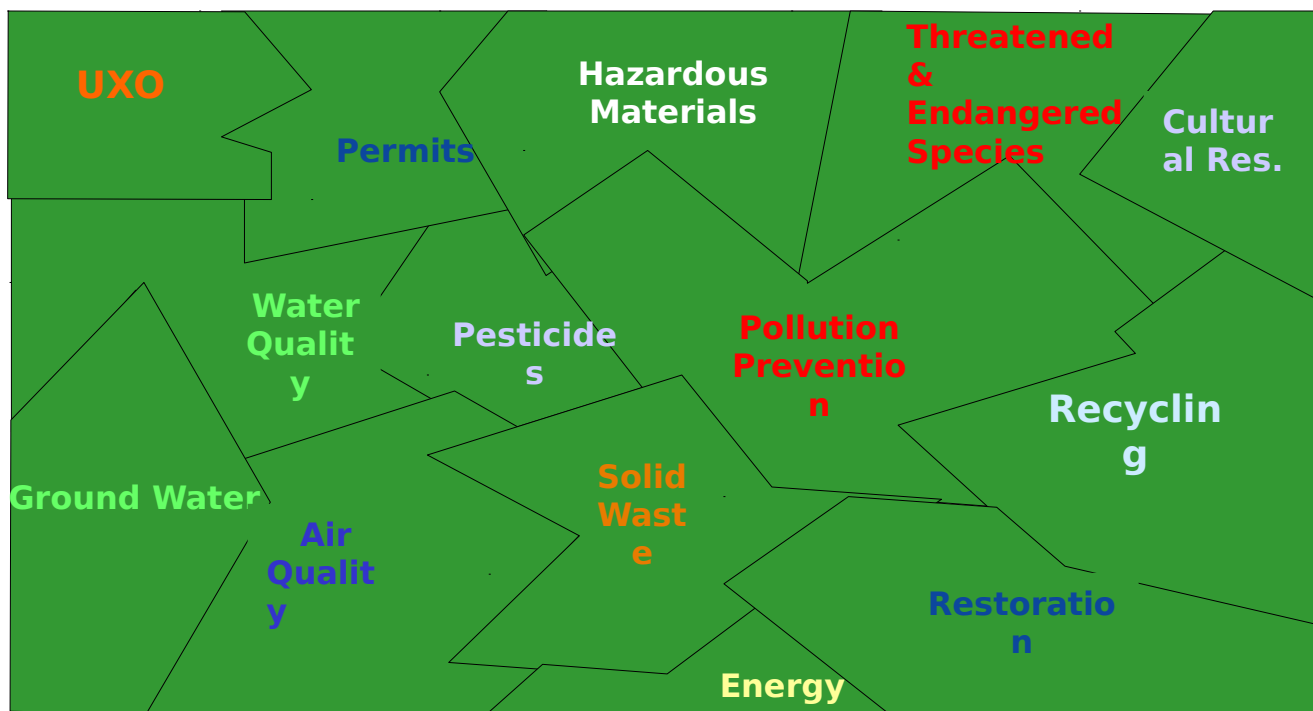
- An organizational approach to environmental management
- Provides a structured framework specifically designed to achieve continual environmental improvement

EMS definition – “The part of the overall management system that includes organizational structure, planning activities, responsibilities, practices, procedures, processes and resources for developing, implementing, achieving, reviewing, and maintaining the environmental policy.” ISO 14001

# Without EMS



# With EMS



# Why EMS?

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- EO 13148 - April 22, 2000 - “Greening the Government Through Leadership in Environmental Management”

Implementation of an EMS by 31 Dec 05

- July 13, 2001 - Army Environmental System Action Memorandum from the Deputy Assistant Secretary of the Army

Army installations must adopt ISO 14001 as a goal

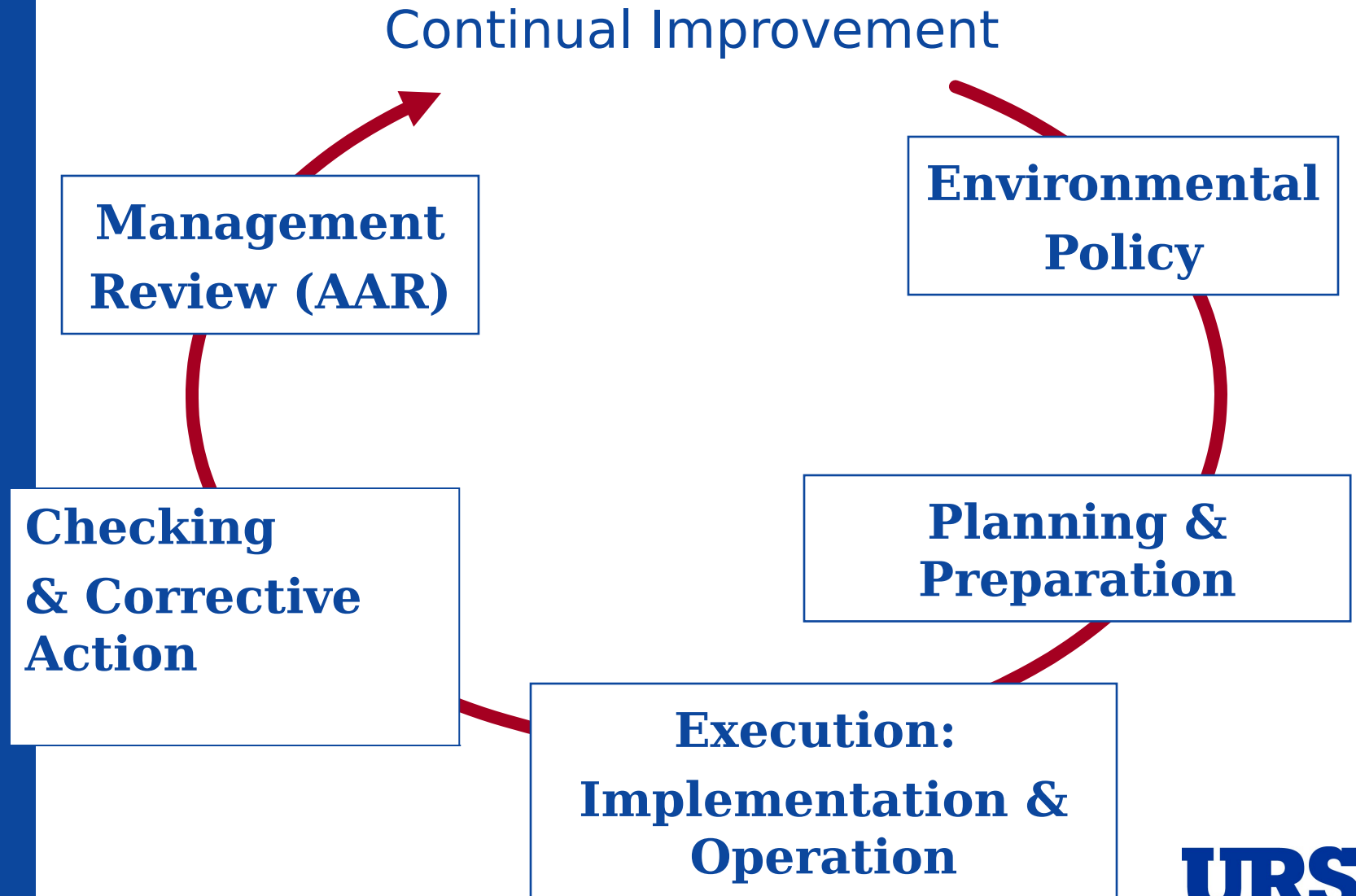
Full conformance with ISO 14001 NLT FY 09

# Benefits of EMS

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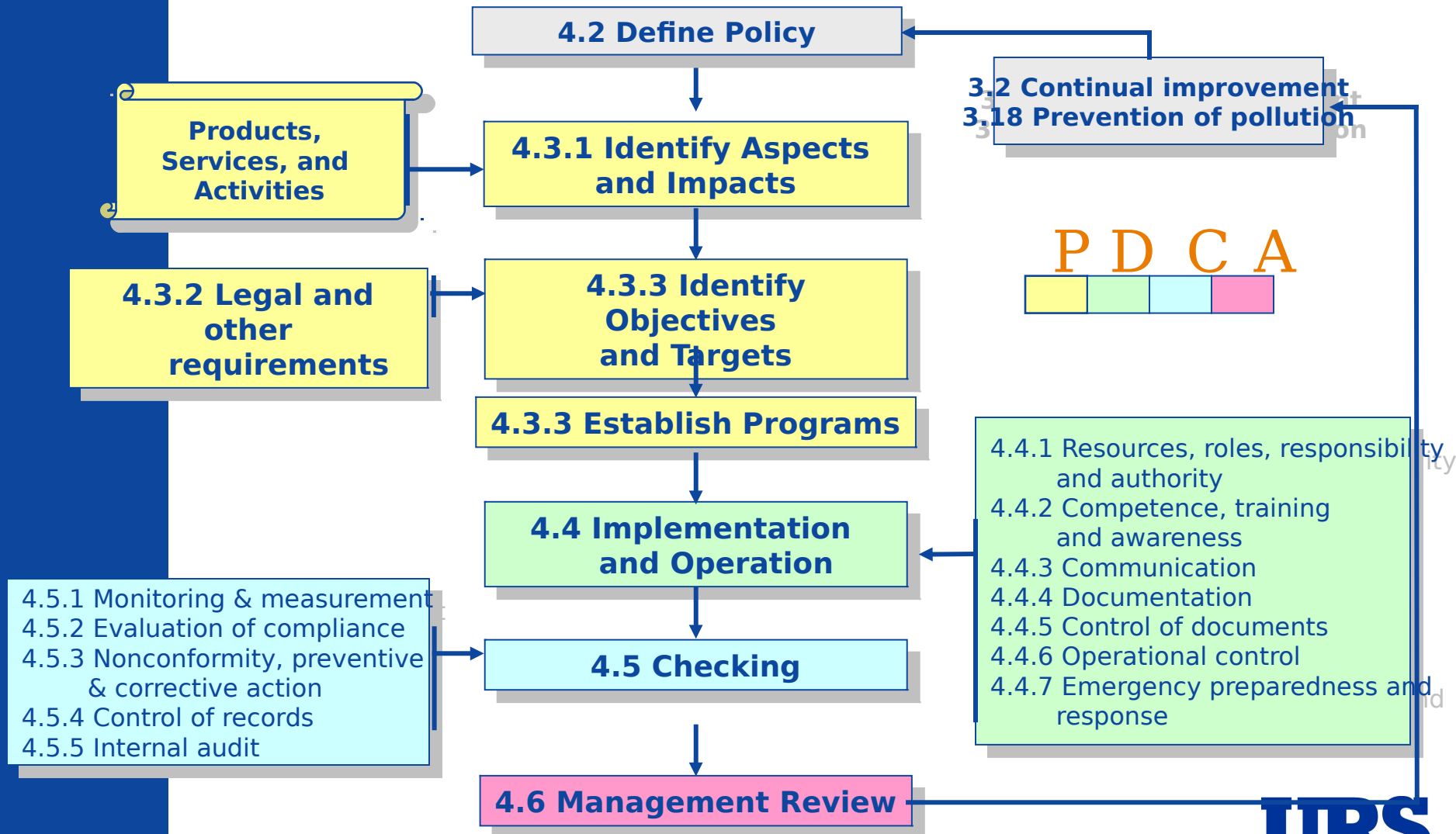
- Positive effect on compliance and performance
- Improved environmental awareness, involvement and competency across organization
- Better communication of environmental issues - internal and external
- Improved efficiency, reduced costs, greater consistency in environmental program
- Continual improvement aspect allows flexibility, and opportunity to correct imperfections
- Better relationships with regulator
- Identification of risk and prevention of problems outside of regulatory requirements - e.g., aging infrastructure

# EMS Process: Plan Do Check Act





# The EMS Model per ISO 14001



# Army Implementation Schedule & Implementation Status at the 222d BSB

Requirements	Actions	Date	Completed
Develop an Environmental Policy consistent with DoD and EMS Policies	BSB CDR sign Installation-wide policy	30 Sep 2003	Yes
Facility perform a self-assessment consistent with DoD and EMS Policies	BSB conduct self-assessment	30 Mar 2004	Yes
Develop a written EMS Implementation Plan with defined dates, identified resources, and org. responsibilities	BSB CDR sign completed implementation plan	30 Sep 2004	Yes
Develop a Prioritized List of Environmental Aspects	Installation develop prioritized list	30 Mar 2005	On-going
Appropriate personnel receive awareness-level EMS training	Installation conduct awareness-level EMS training	30 Mar 2005	On-going
Complete at least one management review in accordance with installation's documented EMS procedure	BSB CDR conduct at least one management review	31 Dec 2005	

# 222d BSB's Environmental Policy

- Environmental Policy is effective since 09 Sept 04.
- Policy is available at the following website <http://www.baumholder.army.mil/media/Policies/policyletters.htm> and also at the DPW environmental office.
- 222d BSB commits itself to:
  - comply with applicable environmental policies, laws and regulations, and ensure that all base activities are in compliance with environmental regulations and other requirements.
  - fully integrate the relevant environmental requirements into its mission procedures and work practices ... so that environmental awareness and compliance are a routine part of performing activities and services.
  - allocate resources and training to protect the environment.
  - communicate and reinforce this policy throughout the BSB

# Definitions: Environmental Aspects and Impacts

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An environmental aspect is the part of an activity, product, or service that interacts with the environment.

An environmental impact is any change to the environment that is caused by an environmental aspect.

A significant environmental aspect is any environmental aspect that has or can have a significant environmental impact.

# Example: Activity - Aspect - Impact Relationship

Activity/Process	Aspect Examples	Impact Examples
Vehicle Maintenance	Hazardous and solid waste generation Water, electricity and fossil fuel consumption Noise generation Wastewater generation Air emissions (volatiles)	Reduced landfill space Loss of natural resources Increased noise levels Contamination of soil, groundwater or surface water Reduced air quality
Office Work	Water and electricity consumption Wastewater generation Solid waste generation Air emissions (ozone depleting substances in air cooling units)	Loss of natural resources Contamination of soil, groundwater or surface water Reduced landfill space Reduced air quality

# 222d BSB Significant Aspects

Determined by scoring the following criteria for each aspect:

- ▶Regulatory Compliance (Weighted)
- ▶Environmental Risk (Severity + Frequency)
- ▶Mission Impact
- ▶Community Concern

Aspects ranked from high to low. Top 3 considered as Significant Aspects.

Results:

- 1) Air emissions (ODS)
- 2) Stormwater discharge
- 3) Solid waste generation (medical, non-infectious)

# What can BSB Personnel do to protect the environment?

- Be aware of environmental regulations and guidance applicable to the job and potential impacts to the environment.
- Be observant for potential non-conformities and opportunities for improving environmental performance.
- Implement tools/equipment/procedures for improving environmental performance.
- Promote environmental awareness.

*To achieve this:*

*Regularly communicate with the EMO.  
Request assistance of the EMO, when needed.*

# Roles and responsibilities in EMS (1/5)

Documenting roles and responsibilities for EMS is required by ISO 14001.

The 222d BSB has an EMS procedure in place which defines roles and responsibilities for the following positions in senior leadership:

- BSB Commander
- Directors/Unit Commanders
- EQCC Members
- EMS Management Representative (EMSMR)



# Roles and responsibilities in EMS (2/5)

## **BSB Commander:**

- has overall responsibility for EMS
- chairs the EQCC (Environmental Quality Control Committee)
- designates EMSMR (EMS Management Representative)
- appoints members of the CFT (cross-functional team) out of the BSB's community
- provides resources to ensure the EMS is properly implemented and maintained

# Roles and responsibilities in EMS (3/5)

## **Directors/Unit Commanders:**

- regularly attend EQCC meetings
- instruct personnel under their command to follow the EMS and incorporate into the day-to-day functions of their organization
- meet with the EMSMR as needed to facilitate implementing and maintaining the EMS and to resolve non-conformities
- appoint a member of their organization to the CFT, if required
- provide resources if required to implement and maintain EMS

# Roles and responsibilities in EMS (4/5)

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## **EQCC Members:**

- regularly attend EQCC meetings
- participate in EMS Management Review (evaluation of effectiveness of EMS)
- aid in dissemination of EMS-related information throughout their respective organization

# Roles and responsibilities in EMS (5/5)

## **EMSMR (EMS Management Representative):**

- represents BSB Commander in establishing, implementing and maintaining the EMS
- chairs CFT
- arranges training, guidance and assistance to CFT
- appoints Quality Assurance Representatives
- appoints internal EMS auditors
- appoints Document Control Officer
- reports to BSB Commander and EQCC the performance of EMS for review

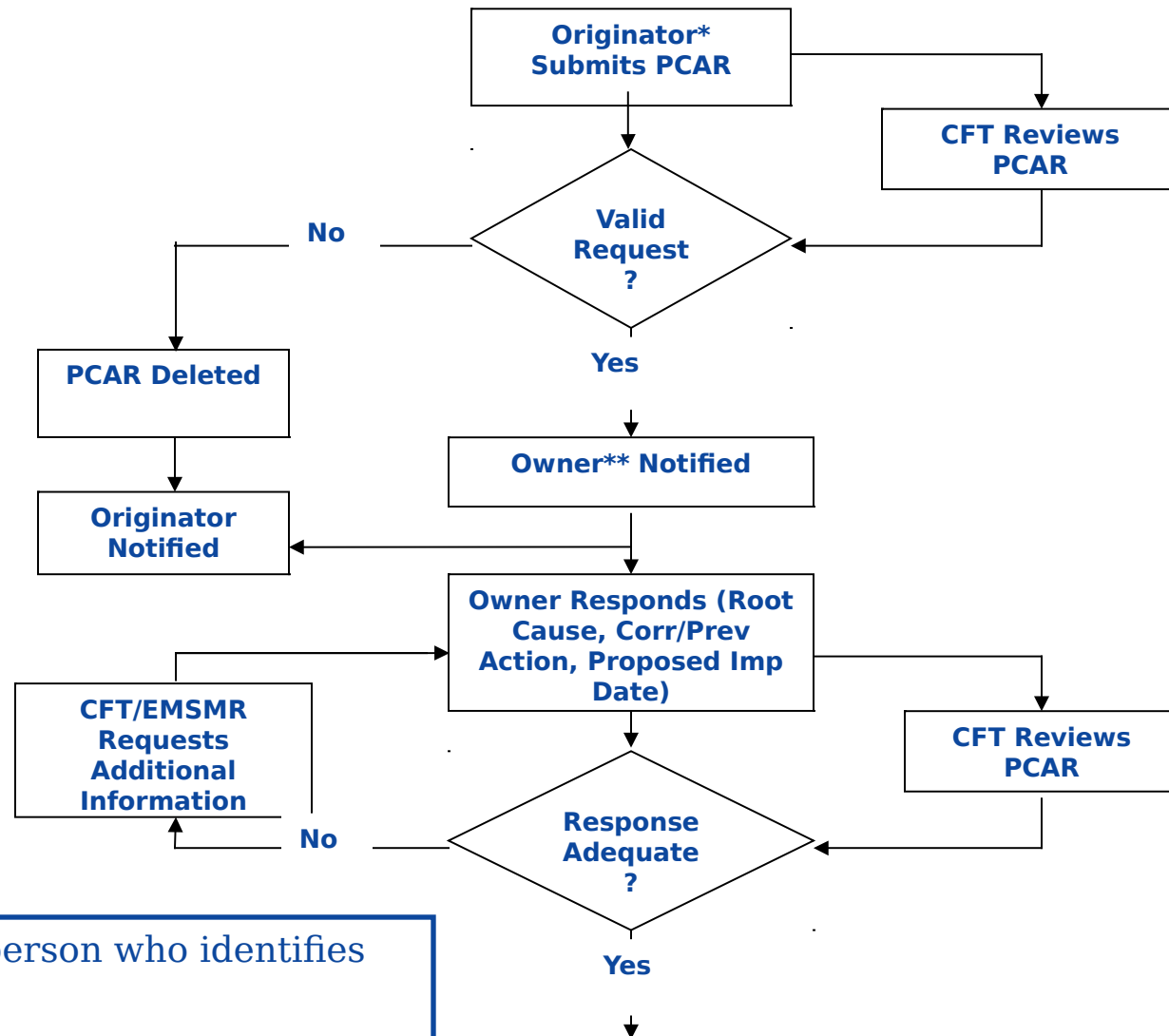
# Procedure for eliminating non-conformities

Establishing a procedure for dealing with actual and potential nonconformities is an ISO 14001 requirement.

222d BSB procedure:

As soon as an EMS non-conformity is identified the Preventive/Corrective Action Request (**PCAR**) **process** for implementing corrective/ preventive action has to be started.

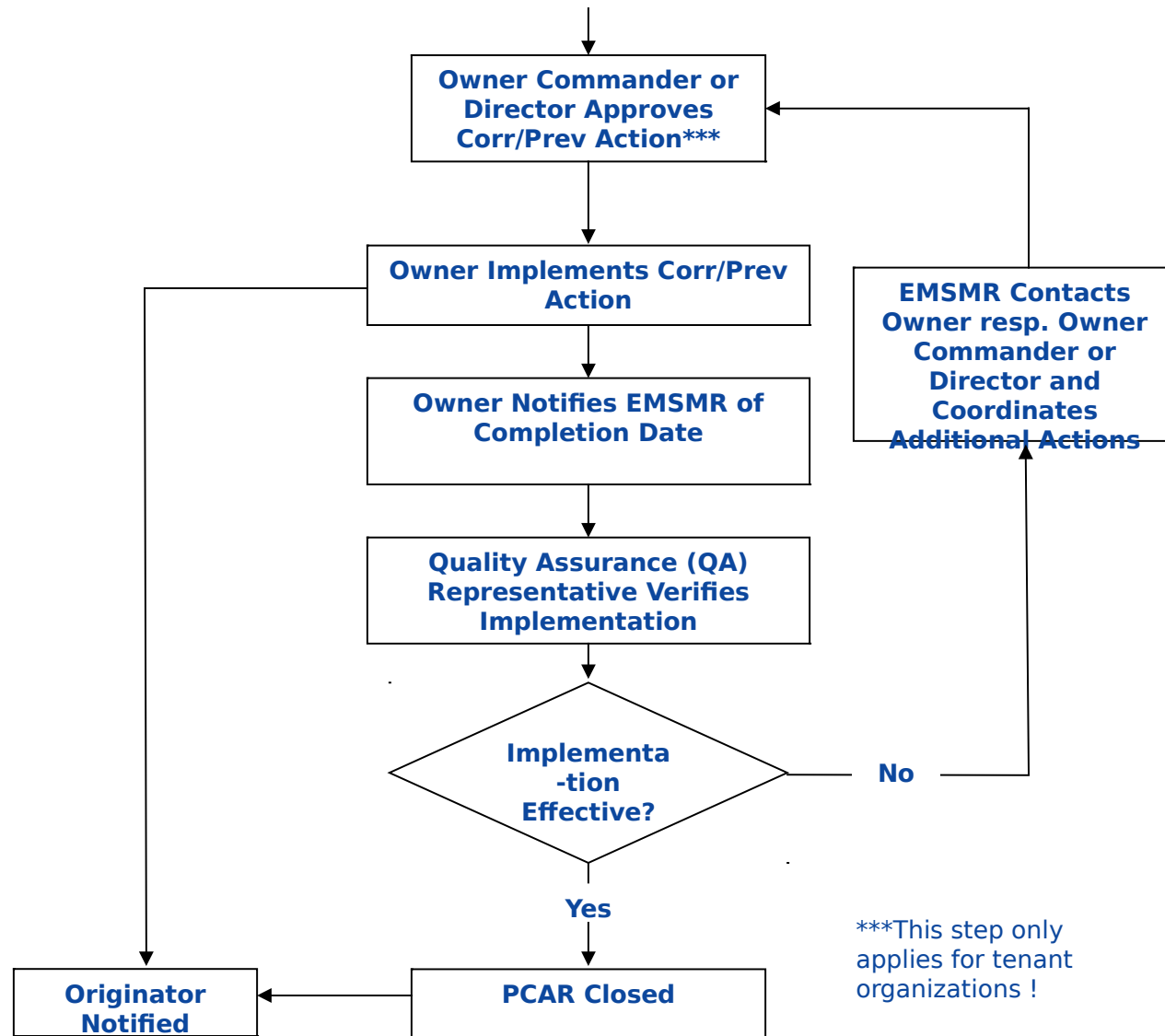
# PCAR Process (Preventive/Corrective Action Request Process) (1/2)



\*Originator = person who identifies non-conformity

\*\*Owner = person responsible/ accountable for implementing corrective/ preventive action

# PCAR Process (Preventive/Corrective Action Request Process) (2/2)



# How Can You Support?

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- Provide senior leadership commitment as a foundation for success of the EMS.
- Communicate that commitment to your staff and throughout the 222d BSB.
- Ensure CFT members attend and participate in EMS meetings, training and workgroups.
- Provide support and encouragement to all levels of EMS implementers.
- Track and ensure progress of EMS implementation in accordance with scheduled key action completion dates.
- Ensure Environmental Compliance Officers and HM/HW POCs attend upcoming EMS awareness level training.